

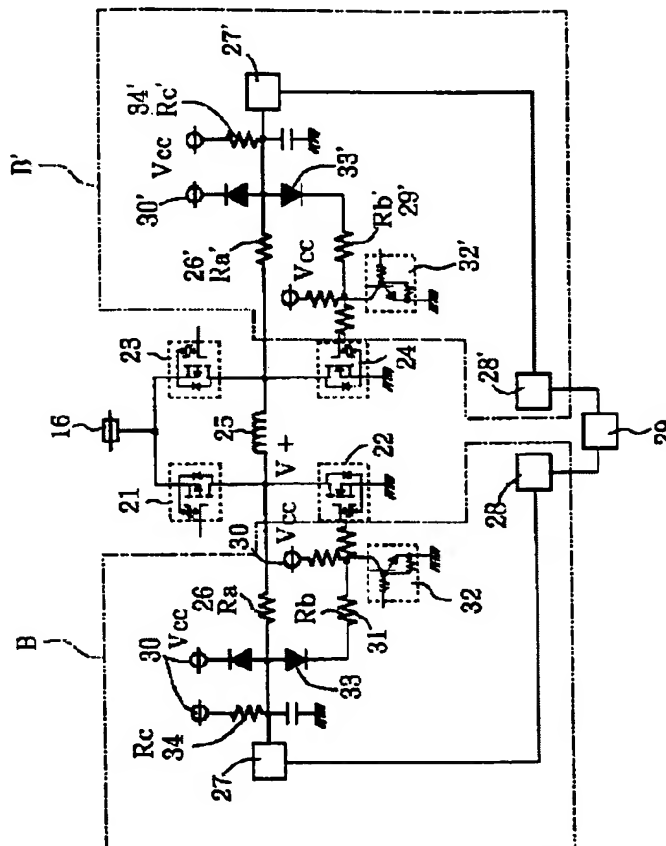
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TITLE : BRIDGE-TYPE DRIVE DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide an H-bridge type drive device, which can always measure a current, made to flow to an induction load in the drive device, at the same degree of sensitivity, even though the terminal voltage of the induction load is a high voltage or a low voltage.

**SOLUTION:** A first resistor Ra 26 and a second resistor Rb 31 and a third resistor Ra 34 and a diode 33 and an additional switch 32 are respectively arranged symmetrically in an H-bridge type drive device. When a voltage V+ of one end of an induction load 25 is a high voltage close to the voltage of a power supply 16, the voltage V+ is divided by the three resistors and the partial voltage are input in an A/D converter, and when the voltage V+ is a low voltage, the voltages V+ is divided only by the first and third resistors and the partial voltages are input in the converter. In this way, the difference between the voltage which are applied to the converter is reduced, and the detection of a current which is made to flow to the induction load in the device always becomes possible at a place having satisfactory sensitivity.

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